Study ID Number:

Customer Information/Study Objectives

First Name:

Last Name:

Phone Number:

Email Address:

Mission Name:

Report Type:

Study Objectives:

Science

Science Objectives:

Measurement Objectives:

Data Collection Scenario:

Mission Characteristics

Target or Destination:

Delivery Trajectory Type:

Launch Date:

Desired Operations Orbit:

Mission Duration From Lanuch (mnths):

Preferred Launch Vechicle:

Spacecraft

Do you have a Spacecraft Design to start from?

Is there a Mass Power Equipment List?

Do you plan to use a Commercial Bus?

If answer is Yes, which one?

Programmatics

Pincipal Investigator:

Institution:

International Involvement?

Mission Schedule Constraints:

Mission Cost Constraints:

Radioisotope Power System(RPS)Required?

Redundancy Policy:

Avionics Test Bed Required?

Engineering Model of S/C Required?

Engineering Model of Payload Required?

Class Parts:

Length(mnths) of Phase A:
(Please enter the number from 1 to 25)

Length(mnths) of Phase B:
(Please enter the number from 1 to 25)

Length(mnths) of Phase C/D:
(Please enter the number from 1 to 72)

Length(mnths) of Phase E: (one month less than
Mission Duration.)

Gound System and Telecom System

Ground System

What % of the data must be returned?

Acceptable data latency (number only):

Telecom System

Required bit−error rate(downlink)?

Electric Propulsion

Maximum flight time(or arrival year):

Trajectory options(if any):

Duty cycle(standard is 90%):

Technology preferences(optional):

   Thruster Type:

   If SEP, Solar Array type:

   If NEP, Nuclear Power Source Type:

Number of Thrusters/Allowable Combinations:

Estimated S/C Dry Mass:

Mass Dropped at Intermediate Body:

Estimated S/C Power(excluding SEP)(W):

Estimated SEP(end of life) array power (kW):

Stay Time at Intermediate Body(if any)(days) :

Solar Sail

Sail Dimensions(m):

Areal Density of Sail (kg/m2):

Reflectivity:

Emissivity:

Thermal Constraints: max,min temps

Instrument

Instrument Type

Instrument Cost(current best estimate)?($M)

Mass(current best estimate)(kg):

Max Data output rate to CDS (Kbps):

Data Volume per day:

Power(current best estimate)(W):

     Operating, peak:

     Standby/Keepalive:

Special Requirements:

Dimensions:

    Width(cm):

    Length(cm):

    Depth(cm):

Sensor cooling required?

Temperature/Detector Power:

Special Thermal Interface Requirements?

Is Payload Processing Required?

Special Contamination Requirements?

Required Pointing Control?

If the answer is Yes, please answer the following questions:

Pointing Control Requirement(arcsec):

Pointing Stability Requirement(arcsec/sec):

Pointing Knowledge Requirement(arcsec):

Reconstruction Requirement(arcsec):

No. of axes for articulation/slewing:

Maximum Slew Range(deg):

Minimum Retargeting Time(sec):

No.of Re–targetings Per Day:

Other Pointing Requirements:

University Built?

Estimated Development Time(months):

Design Life/Mission Life: (years)

Is this an Exact Copy of a Prior Instrument–NO Changes?

If answer is Yes, please Specify:

Inheritance: